BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work: Improvements to Roads and Drains at Vyshanavi Layout in Ward No. 11, (Kuvempunagara).

Estimated Cost : Rs. 37.00 Lakhs

Job Code: 011-22-000006

Head of Account : P-3726 Zonal Public Works - POW Works

Name of Agency: Sri K. Shankar Reddy, No. 18, K-No. 370, 414, 413, 188, Bhuvaneshwarinagara, Bangalore - 560024.

Work order No: EE/BTP/BBMP/E-PMT/15(50366)/WO/19/2022-23 D: 22-04-2022.

Measurements Recarded on : 25/04/22

Sl No.	Description	No.	L	B1	B2	Av.B	D	Qty	Rate
1	**Earthwork excavation by manual means in ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								Cum
	Desilting of Drain								
	Vyshnavi Layout 1st Main Road								
		2	15.00			0.45	0.50	6.75	
		2	4.00			0.45	0.50	1.80	
		1	12.00			0.45	0.50	2.70	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	16.00			0.45	0.50	7.20	
	Cross Road								
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	7.00			0.45	0.50	3.15	
	Vyshnavi Layout 3rd Main Road								
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	15.00			0.45	0.50	6.75	
		2	13.00			0.45	0.50	5.85	
	Culverts								
	Lake Gate opp	1	8.00			2.00	1.10	17.60	

193.55

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhat Bangalore Mahanagara Palike

Sl No.	Description	No.	L	B1	B2	Av.B	D	Qty	Rate
	opp Dhanalakshmi Store Cross Road	1	6.00			2.00	1.10	13.20	
	opp Dhanalakshmi Store	1	6.00			2.00	1.20	14.40	
			Total Qty =					221.15	
			Qty Limited to =					221.04	Cum

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

K. Sankar Reddy

Sl No.	Description	No.	L	B1	B2	Av.B	D	Qty	Rate
	Measurements Recarded on : 26/04/22								
2	Providing and laying **Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm** and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications								Cum
	Bed Concrete								
	Lake Gate opp	1	8.00			1.80	0.15	2.16	
	opp Dhanalakshmi Store Cross Road	1	6.00			1.80	0.15	1.62	
	opp Dhanalakshmi Store	1	6.00			1.80	0.15	1.62	
			Total Qty =					**5.40**	
			Qty Limited to =					**4.80**	Cum

Assistant Engineer
Ward No. 11

K. Sankar Peddy

Assistant Executive Engineer
Vidyaranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Sl No.	Description	No.	L	B1	B2	Av.B	D	Qty	Rate
	Measurements Recarded on :	28/04/22							
3	Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6, edges of stones** chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.								Cum
	SSM Wall								
	1st Course								
	Lake Gate opp	2	8.00			0.60	0.45	4.32	
	opp Dhanalakshmi Store Cross Road	2	6.00			0.60	0.45	3.24	
	opp Dhanalakshmi Store	2	6.00			0.60	0.45	3.24	
	2nd Course								
	Lake Gate opp	2	8.00			0.45	0.45	3.24	
	opp Dhanalakshmi Store Cross Road	2	6.00			0.45	0.45	2.43	
	opp Dhanalakshmi Store	2	6.00			0.45	0.45	2.43	
				Total Qty =				**18.90**	
				Qty Limited to =				**18.90**	Cum

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Assistant Engineer
Ward No. 11

28/4

Assistant Executive Engineer
Vidayranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Division
Bruhath Bengaluru Mahanagara Palike

K. Sowmya Reddy

Sl No.	Description	No.	L	B1	B2	Av.B	D	Qty	Rate
	Measurements Recarded on :	30/04/22							
6	**Scarifying kankar / gravel / metal crust upto 150mm thick** with pick axes and disposal of stuff including cost of all labour charges complete as per specifications.								Sqm
	Vyshnavi Layout 1st Main Road								
	From Layout Enterance to 1st Cross	1	15.00	5.30	6.00	5.65		84.75	
		1	4.00	6.00	6.50	6.25		25.00	
		1	12.00	6.00	6.50	6.25		75.00	
		1	15.00	5.30	5.30	5.30		79.50	
		1	15.00	5.30	5.70	5.50		82.50	
		1	15.00	5.70	5.70	5.70		85.50	
		1	15.00	5.70	5.60	5.65		84.75	
		1	15.00	5.60	5.60	5.60		84.00	
		1	15.00	5.60	5.00	5.30		79.50	
		1	15.00	5.00	6.00	5.50		82.50	
		1	15.00	6.00	5.80	5.90		88.50	
		1	15.00	5.80	5.10	5.45		81.75	
		1	15.00	5.10	5.10	5.10		76.50	
		1	15.00	5.10	4.80	4.95		74.25	
		1	16.00	4.80	4.80	4.80		76.80	
	Cross Road								
		1	15.00	6.00	6.10	6.05		90.75	
		1	15.00	6.10	5.80	5.95		89.25	
		1	15.00	5.80	5.70	5.75		86.25	
		1	15.00	5.70	5.80	5.75		86.25	
	Vyshnavi Layout 3rd Main Road								
	Cross Road to Dead end	1	15.00	5.60	6.80	6.20		93.00	
		1	15.00	6.80	5.80	6.30		94.50	
		1	15.00	5.80	4.80	5.30		79.50	
		1	15.00	4.80	5.00	4.90		73.50	
		1	15.00	5.00	5.30	5.15		77.25	
		1	15.00	5.30	5.40	5.35		80.25	
		1	15.00	5.40	5.50	5.45		81.75	
		1	15.00	5.50	5.50	5.50		82.50	
		1	13.00	5.50	5.50	5.50		71.50	
				Total Qty =				**2247.05**	
				Qty Limited to =				**2240.00**	Sqm

30/4

Assistant Engineer
Ward No. 11

K. Sankar Reddy

Assistant Executive Engineer
Vidayranyapura Sub Division

Sl No.	Description	No.	L	B1	B2	Av.B	D	Qty	Rate
	Measurements Recarded on :	09/05/22							
8	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.								Cum
	Vyshnavi Layout 1st Main Road								
	From Layout Enterance to 1st Cross	1	15.00	5.30	6.00	5.65	0.23	19.49	
		1	4.00	6.00	6.50	6.25	0.23	5.75	
		1	12.00	6.00	6.50	6.25	0.23	17.25	
		1	15.00	5.30	5.30	5.30	0.23	18.29	
		1	15.00	5.30	5.70	5.50	0.23	18.98	
		1	15.00	5.70	5.70	5.70	0.23	19.67	
		1	15.00	5.70	5.60	5.65	0.23	19.49	
		1	15.00	5.60	5.60	5.60	0.23	19.32	
		1	15.00	5.60	5.00	5.30	0.23	18.29	
		1	15.00	5.00	6.00	5.50	0.23	18.98	
		1	15.00	6.00	5.80	5.90	0.23	20.36	
		1	15.00	5.80	5.10	5.45	0.23	18.80	
		1	15.00	5.10	5.10	5.10	0.23	17.60	
		1	15.00	5.10	4.80	4.95	0.23	17.08	
		1	16.00	4.80	4.80	4.80	0.23	17.66	
	Cross Road								
		1	15.00	6.00	6.10	6.05	0.23	20.87	
		1	15.00	6.10	5.80	5.95	0.23	20.53	
		1	15.00	5.80	5.70	5.75	0.23	19.84	
		1	15.00	5.70	5.80	5.75	0.23	19.84	
	Vyshnavi Layout 3rd Main Road								
	Cross Road to Dead end	1	15.00	5.60	6.80	6.20	0.23	21.39	
		1	15.00	6.80	5.80	6.30	0.23	21.74	
		1	15.00	5.80	4.80	5.30	0.23	18.29	
		1	15.00	4.80	5.00	4.90	0.23	16.91	
		1	15.00	5.00	5.30	5.15	0.23	17.77	
		1	15.00	5.30	5.40	5.35	0.23	18.46	
		1	15.00	5.40	5.50	5.45	0.23	18.80	
		1	15.00	5.50	5.50	5.50	0.23	18.98	
		1	13.00	5.50	5.50	5.50	0.23	16.45	
				Total Qty =				**516.82**	
				Qty Limited to =				**515.20**	Cum

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidayranyapura Sub Division

H. Sankar Reddy

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Sl No.	Description	No.	L	B1	B2	Av.B	D	Qty	Rate
	Measurements Recarded on :	22/05/22							
9	Providing and applying **primer coat with S.S. bitumen emulsion** on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.								Sqm
	Vyshnavi Layout 1st Main Road								
	From Layout Enterance to 1st Cross	1	15.00	5.30	6.00	5.65		84.75	
		1	4.00	6.00	6.50	6.25		25.00	
		1	12.00	6.00	6.50	6.25		75.00	
		1	15.00	5.30	5.30	5.30		79.50	
		1	15.00	5.30	5.70	5.50		82.50	
		1	15.00	5.70	5.70	5.70		85.50	
		1	15.00	5.70	5.60	5.65		84.75	
		1	15.00	5.60	5.60	5.60		84.00	
		1	15.00	5.60	5.00	5.30		79.50	
		1	15.00	5.00	6.00	5.50		82.50	
		1	15.00	6.00	5.80	5.90		88.50	
		1	15.00	5.80	5.10	5.45		81.75	
		1	15.00	5.10	5.10	5.10		76.50	
		1	15.00	5.10	4.80	4.95		74.25	
		1	16.00	4.80	4.80	4.80		76.80	
	Cross Road								
		1	15.00	6.00	6.10	6.05		90.75	
		1	15.00	6.10	5.80	5.95		89.25	
		1	15.00	5.80	5.70	5.75		86.25	
		1	15.00	5.70	5.80	5.75		86.25	
	Vyshnavi Layout 3rd Main Road								
	Cross Road to Dead end	1	15.00	5.60	6.80	6.20		93.00	
		1	15.00	6.80	5.80	6.30		94.50	
		1	15.00	5.80	4.80	5.30		79.50	
		1	15.00	4.80	5.00	4.90		73.50	
		1	15.00	5.00	5.30	5.15		77.25	
		1	15.00	5.30	5.40	5.35		80.25	
		1	15.00	5.40	5.50	5.45		81.75	
		1	15.00	5.50	5.50	5.50		82.50	
		1	13.00	5.50	5.50	5.50		71.50	
			Total Qty =					**2247.05**	
			Qty Limited to =					**2240.00**	Sqm

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidayranyapura Sub Division

Sl No.	Description	No.	L	B1	B2	Av.B	D	Qty	Rate
	Measurements Recarded on :	22/05/22							
10	Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using **40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen**								Cum
	Vyshnavi Layout 1st Main Road								
	From Layout Enterance to 1st Cross	1	15.00	5.30	6.00	5.65	0.05	4.24	
		1	4.00	6.00	6.50	6.25	0.05	1.25	
		1	12.00	6.00	6.50	6.25	0.05	3.75	
		1	15.00	5.30	5.30	5.30	0.05	3.98	
		1	15.00	5.30	5.70	5.50	0.05	4.13	
		1	15.00	5.70	5.70	5.70	0.05	4.28	
		1	15.00	5.70	5.60	5.65	0.05	4.24	
		1	15.00	5.60	5.60	5.60	0.05	4.20	
		1	15.00	5.60	5.00	5.30	0.05	3.98	
		1	15.00	5.00	6.00	5.50	0.05	4.13	
		1	15.00	6.00	5.80	5.90	0.05	4.43	
		1	15.00	5.80	5.10	5.45	0.05	4.09	
		1	15.00	5.10	5.10	5.10	0.05	3.83	
		1	15.00	5.10	4.80	4.95	0.05	3.71	
		1	16.00	4.80	4.80	4.80	0.05	3.84	
	Cross Road								
		1	15.00	6.00	6.10	6.05	0.05	4.54	
		1	15.00	6.10	5.80	5.95	0.05	4.46	
		1	15.00	5.80	5.70	5.75	0.05	4.31	
		1	15.00	5.70	5.80	5.75	0.05	4.31	
	Vyshnavi Layout 3rd Main Road								
	Cross Road to Dead end	1	15.00	5.60	6.80	6.20	0.05	4.65	
		1	15.00	6.80	5.80	6.30	0.05	4.73	
		1	15.00	5.80	4.80	5.30	0.05	3.98	
		1	15.00	4.80	5.00	4.90	0.05	3.68	
		1	15.00	5.00	5.30	5.15	0.05	3.86	
		1	15.00	5.30	5.40	5.35	0.05	4.01	
		1	15.00	5.40	5.50	5.45	0.05	4.09	
		1	15.00	5.50	5.50	5.50	0.05	4.13	
		1	13.00	5.50	5.50	5.50	0.05	3.58	
				Total Qty =				**112.35**	
				Qty Limited to =				**112.00**	Cum

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

K. Sankar Reddy

Sl No.	Description	No.	L	B1	B2	Av.B	D	Qty	Rate
	Measurements Recarded on :	23/05/22							
11	**Cleaning the existing black topped surface with brooms,** soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications.								Sqm
	Vyshnavi Layout 1st Main Road								
	From Layout Enterance to 1st Cross	1	15.00	5.30	6.00	5.65		84.75	
		1	4.00	6.00	6.50	6.25		25.00	
		1	12.00	6.00	6.50	6.25		75.00	
		1	15.00	5.30	5.30	5.30		79.50	
		1	15.00	5.30	5.70	5.50		82.50	
		1	15.00	5.70	5.70	5.70		85.50	
		1	15.00	5.70	5.60	5.65		84.75	
		1	15.00	5.60	5.60	5.60		84.00	
		1	15.00	5.60	5.00	5.30		79.50	
		1	15.00	5.00	6.00	5.50		82.50	
		1	15.00	6.00	5.80	5.90		88.50	
		1	15.00	5.80	5.10	5.45		81.75	
		1	15.00	5.10	5.10	5.10		76.50	
		1	15.00	5.10	4.80	4.95		74.25	
		1	16.00	4.80	4.80	4.80		76.80	
	Cross Road								
		1	15.00	6.00	6.10	6.05		90.75	
		1	15.00	6.10	5.80	5.95		89.25	
		1	15.00	5.80	5.70	5.75		86.25	
		1	15.00	5.70	5.80	5.75		86.25	
	Vyshnavi Layout 3rd Main Road								
	Cross Road to Dead end	1	15.00	5.60	6.80	6.20		93.00	
		1	15.00	6.80	5.80	6.30		94.50	
		1	15.00	5.80	4.80	5.30		79.50	
		1	15.00	4.80	5.00	4.90		73.50	
		1	15.00	5.00	5.30	5.15		77.25	
		1	15.00	5.30	5.40	5.35		80.25	
		1	15.00	5.40	5.50	5.45		81.75	
		1	15.00	5.50	5.50	5.50		82.50	
		1	13.00	5.50	5.50	5.50		71.50	
			Total Qty =					**2247.05**	
			Qty Limited to =					**2240.00**	Sqm

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Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidayranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

K. Sankar Reddy